

WHAT IS CLAIMED IS:

1. A keyboard musical instrument for generating tones, comprising:
 - a cabinet defining an inner space, and having a surface;
 - a keyboard having plural keys selectively depressed for designating pitches of said tones to be generated, and placed on said surface so as to expose said plural keys to the outside of said cabinet;
 - a tone generating system at least partially housed in said cabinet, and connected to said keyboard for generating tones at said pitches; and
 - a music rack including
 - a desk board against which a document is put and
 - a guide hidden inside said cabinet and connected to said desk board so as to permit a user to move said desk board in a direction parallel to said keyboard.
2. The keyboard musical instrument as set forth in claim 1, in which guide is partially embedded in a component member of said cabinet.
3. The keyboard musical instrument as set forth in claim 2, in which said guide includes
 - a base embedded in said component member and formed with a groove extending in said direction, and
 - a slider partially inserted into said groove and connected to a part of said desk board so as to permit said desk board to change a position along said groove through a sliding motion of said slider.

4. The keyboard musical instrument as set forth in claim 3, in which said base has an upper surface rearward inclined and forming another part of said desk board.
5. The keyboard musical instrument as set forth in claim 4, in which said base is formed with a ridge extending along a front end of said base in parallel to said keyboard and forming yet another part of said desk board, and said upper surface extends between said ridge and said groove.
6. The keyboard musical instrument as set forth in claim 3, in which said guide further includes a lubrication sheet between said slider and an inner surface of said base defining said groove so that said slider smoothly slides along said groove.
7. The keyboard musical instrument as set forth in claim 2, in which said guide includes
 - a guide rail embedded in said component member and formed with a recess extending in parallel to said keyboard, and
 - a carrier having a projection inserted into said recess so as to be movable in said direction and connected to a part of said desk board so as to permit said desk board to change a position along said recess through a lateral motion of said carrier.
8. The keyboard musical instrument as set forth in claim 7, in which said desk board further has a table provided on said component member in front of said guide rail, and said table has an upper surface inclined rearward.

9. The keyboard musical instrument as set forth in claim 8, in which said table is formed with a ridge along a front end thereof, and said upper surface extends between said ridge and said a rear end of said table.

10. The keyboard musical instrument as set forth in claim 2, in which said guide includes

an inner surface of said component member defining a groove extending along said keyboard in parallel thereto, and

a carrier put in said groove in such a manner as to slide along said groove and connected to a part of said desk board.

11. The keyboard musical instrument as set forth in claim 1, further comprising

a tilt mechanism provided between said guide and said desk board so that said document is inclined through said tilt mechanism.

12. The keyboard musical instrument as set forth in claim 11, in which said guide is partially embedded in a component member of said cabinet.

13. The keyboard musical instrument as set forth in claim 12, in which said guide includes

an inner surface of said component member defining a guide groove along said keyboard in parallel thereto, and

a carrier put in said guide groove in such a manner as to slide along said guide groove, and connected to a part of said desk board through said tilt mechanism.

14. The keyboard musical instrument as set forth in claim 13, in which said guide groove includes a shallow groove extending along said keyboard and a deep groove extending along said keyboard and contiguous to said shallow groove so that said guide groove has an inverted L-letter cross section, and in which said carrier includes a thin portion put on a part of said inner surface defining a bottom of said shallow groove in a slidable manner and a thick portion downward projecting from a front end of said thin portion and received in said deep groove so as to prevent said thin portion from being inclined.

15. The keyboard musical instrument as set forth in claim 13, in which said guide further includes a lubrication sheet provided between said carrier and said inner surface so as to render the sliding smooth.

16. The keyboard musical instrument as set forth in claim 2, in which said guide includes a driving mechanism having a portion moved in parallel to said keyboard and connected to said desk board so that said driving mechanism moves said desk board in parallel to said keyboard.

17. The keyboard musical instrument as set forth in claim 16, in which said driving mechanism includes

a motor having an output shaft selectively rotated in a clockwise direction and a counter clockwise direction,

a pulley driven for rotation by said output shaft,

another pulley spaced from said pulley in a direction parallel to said keyboard and rotatably supported,

a loop member stretched between said pulley and said another pulley, and
a carrier secured between said loop member and said desk board.

18. The keyboard musical instrument as set forth in claim 16, in which said driving mechanism includes a motor having an output shaft selectively rotated in a clockwise direction and a counter clockwise direction, a pinion fixed to said output shaft and a rack extending in a direction parallel to said keyboard, and in which said motor and said rack are selectively connected to said carrier and said cabinet.

19. The keyboard musical instrument as set forth in claim 16, in which said guide further includes a tilt mechanism connected between said carrier and said desk board.

20. A keyboard musical instrument for generating tones, comprising:
a cabinet defining an inner space, and having a top surface defining an upper end thereof and another surface;
a keyboard having plural keys selectively depressed for designating pitches of said tones to be generated, and placed on said another surface so as to expose said plural keys to the outside of said cabinet;
a tone generating system at least partially housed in said cabinet, and connected to said keyboard for generating tones at said pitches; and
a music rack including
a desk board projecting over said top surface, a document being put against said desk board, and

a guide provided in the vicinity of said top surface and connected to said desk board so as to permit a user to move said desk board in a direction parallel to said keyboard.

21. The keyboard musical instrument as set forth in claim 20, in which a part of said guide connected to said desk board is attached to and detached from another part of said guide.

22. The keyboard musical instrument as set forth in claim 20, in which said guide includes

a carrier supporting a part of said desk board,

a traveling path extending in parallel to said keyboard and rendering said carrier sliding thereon, and

a tilt mechanism provided between said carrier and said part of said desk board so that said desk board is tilted on said carrier.

23. The keyboard musical instrument as set forth in claim 20, in which a rail formed with one of a recess and a projection serves as a traveling path forming part of said guide, and said carrier forming another part of said guide is detachable from said rail.

24. The keyboard musical instrument 20, in which said guide includes a driving system responsive to an instruction given by a user for moving desk board along said keyboard without any force exerted on said part by said user.

25. A music rack used in a keyboard musical instrument, comprising:

a desk board against which a document is put; and

a guide hidden inside said cabinet and connected to said desk board so as to permit a user to move said desk board in a direction parallel to said keyboard.